

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

E. FREDRICK HERKENHOFF ET AL.

Serial No.: 10/736,951

Filed: December 15, 2003

For: METHODS FOR ACQUIRING

AND PROCESSING SEISMIC

DATA FROM QUASI-

SIMULTANEOUSLY ACTIVATED

TRANSLATING ENERGY

**SOURCES** 

**GROUP ART UNIT:** 

**EXAMINER:** 

P.O. Box 6006 San Ramon, CA 94583-0806

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted pursuant to 37 CFR §§ 1.56, 1.98 and 1.97, particularly 1.97(c). The documents listed on the attached Forms PTO/SB/08A and PTO/SB/08B are brought to the Examiner's attention.

> I hereby certify that I have a reasonable basis for believing that this correspondence will be deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on April 15, 2004 Date of Deposit

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Respectfully submitted,

Richard J. Schulte

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Reg. No. 35,350 (925) 842-1476

RJSchulte:ncc Enclosures

April 15, 2004

PTO/SB/08a (08-03) Approved for use through 07/31/2006. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	10/736,951
Filing Date	December 15, 2003
First Named Inventor	E. FREDRICK HERKENHOFF
Art Unit	
Examiner Name	
Attorney Docket Number	T-6313

(Use as many sheets as necessary)
Sheet 1 of 2

**U.S. PATENT DOCUMENTS** Name of Patentee or Applicant of Examiner Document Number Publication Date Pages, Columns, Lines, Where Relevant Cited Document Initials No. MM-DD-YYYY Passages or Relevant Number - Kind Code2 (if known) Figures Appear 09-09-1963 AA Krey US - 3,285,363 AB 09-30-1968 Parr, Jr. US - 3.569,922 AC 09-29-1972 Ritter US - 3,687,218 AD US - 3,893,539 07-08-1975 Mott-Smith ΑE 05-11-1976 Barbier US - 3,956,730 AF 10-05-1976 Silverman US - 3,984,805 AG 08-15-1978 Huizer US - 4,106,585 AH 03-27-1979 Ruehle US - 4,146,870 ΑI US - 4,159,463 06-26-1979 Silverman AJ US - 4,170,002 10-02-1979 Strange ΑK US - 4,242,740 12-30-1980 Ruehle ΑI 03-03-1981 US - 4,254,480 French AM 11-02-1982 Rueble US - 4,357,689 ΔN US - 4,441,174 04-03-1984 Ray et al. AO US - 4,467,459 08-21-1984 Currie AP US - 4,486,864 12-04-1984 Ongkiehong et al. AQ US - 4,564,927 01-14-1986 Kolb AR US - 4,715,020 12-22-1987 Landrum, Jr. AS US - 4,797,861 01-10-1989 Beasley AT US - 4,953,657 09-04-1990 Edington ΑÛ 01-01-1991 Edington et al. US - 4,982,374 ΑV US - 5,247,486 09-21-1993 Regnault AW 07-05-1994 Asada et al. US - 5,327,399 AX 04-18-1995 US - 5,408,441 Barr et al. ΔY US - 5,412,623 05-02-1995 Asada et al. ΑZ 10-31-1995 Lindsey et al. US - 5,463,594 US - 5,537,364 07-16-1996 Howlett BB 02-10-1998 Anstey US - 5,717,170 BC 02-17-1998 Sallas et al. US - 5,719,821 BD 02-24-1998 US - 5,721,710 Sallas et al. BE 10-13-1998 US - 5,822,269 Allen

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		U.S. PATENT DO	CUMENTS	
BF	US - 5,924,049	07-13-1999	Beasley et al.	
BG	US - 6,028,818	02-22-2000	Jeffryes	
ВН	US - 6,327,537	12-04-2001	Ikelle	
ВІ	US - 6,510,390	01-21-2003	Bunting et al.	
BJ	US - 6,545,944 B2	04-08-2003	de Kok	
BK	US - 6,648,097	11-18-2003	Tite et al.	
BL	US - 6,687,619	02-03-2004	Moerig et al.	

		FOREIGN PA	TENT DOCU	MENTS	<del></del>	
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	Τ°
Initials*	No.¹	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
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